JC04 Rec'd PCT/PTO 24 OCT 2005 FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE (REV. 11-2004) 58086-224991 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A FILING UNDER 35 U.S.C. 371** Not Yet INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIME PCT/US2004/011955 April 15, 2004 April 22, 2003 TITLE OF INVENTION MICROMEMBRANE ACTUATOR APPLICANT(S) FOR DO/EO/US Gregory P. CARMAN and Daniel D. SHIN Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. 🛛 This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The US has been elected by the expiration of 19 months from the priority date (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)), published as WO 2004/094821 A2 is attached hereto (required only if not communicated by the International Bureau). b. A has been communicated by the International Bureau. (attached is form IB 308) is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a.

is attached hereto. b. has been previously submitted under 35 U.S.C. 154(d)(4) 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)). a.

are attached hereto (required only if not communicated by the International Bureau). b.

have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

- 13. A FIRST preliminary amendment.
- 14. An Application Data Sheet under 37 CFR 1.76.
- 15. A substitute specification.
- 16. A power of attorney and/or change of address letter.
- 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 1.825.
- 18. A second copy of the published international application under 35 U.S.C. 154(d)(4).
- 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- 20. Other items or information: Formal Drawings (3 sheets), International Search Report, PTO/SB/08A and Form PCT/IB/304

This collection of information is required by 37 CFR 1.414 and 1.49-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Mail Stop PCT, commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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u's. APPLICATION NO. (if known, see 37 CFR 1.5) Not Yet Assigned 47/554316 INTERNATIONAL APPLICATION NO. PCT/US2004/011955						ATTORNEY'S DOCKET NUMBER	
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☑ b) Examination fee \$200.00						\$500.00	
C) Search fe				······································		\$500.00	
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Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).						\$	
CLAIMS	CLAIMS NUMBER FILE		NUMBER EXTRA		RATE	\$	
Total claims	s	28 20 =	8 .	×	\$50.00	\$400.00	
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TOTAL OF ABOVE CALCULATIONS =						\$1,400.00	
Applicant cla	aims small entity sta	tus. See 37 CFI	R 1.27. The fees indicate	ed above	are reduced +	\$700.00	
SUBTOTAL =						\$700.00	
Processing fee of \$130.00 for furnishing the English translation later than 20 30 months from the earliest claimed priority date (37 CFR 1.492(f)).						\$	
TOTAL NATIONAL FEE =						\$700.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property						\$	
					NCLOSED =	\$700.00	
						Amount to be refunded:	\$
						Amount to be charged:	\$
a. A check in the amount of \$ to cover the above fees is enclosed.							
b. Please charge my Deposit Account No. 22-0261 in the amount of \$700.00 to cover the above fees.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>22-0261</u> . A duplicate copy of this sheet is enclosed.							
			VARNING: Information of information and authorized			ne public. Credit card	d information should not be
			37 CFR 1.494 or 1.495 hation to pending status		been met, a p	etition to revive (37	CFR 1.137 (a) or (b))
SEND ALL CORRESPONDENCE TO:							
SIGNATURE							
VENABLE LLP P.O. Box 34385					Stevi	en J. Schwartz, Octob	ner 24 2005
Washington D.C. 20043-9998 NAME							701 24, 2009
Phone No. 202-344-4000 47.0							
Fax No. 202-344-8300 REG						SISTRATION NUMBER	

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